

APPENDIX:

RHODE ISLAND CANCER RATES, 1997-2001 - DETAILED TABLES

Introduction

The Rhode Island Cancer Registry maintains up-to-date cancer statistics for the State, including incidence rates, prevalence estimates, and mortality rates. The statistics are computed for the State as a whole and for counties. The latest incidence statistics are available for the years 1997-2001, prepared in July, 2003. The latest mortality statistics are available for the years 1996-2000.

Sources of Data

Incidence

Age-adjusted incidence rates by sex and by race are computed from:

- case reports of newly diagnosed cancers made to the Rhode Island Cancer Registry
- counts of the Rhode Island population in the censuses of 1980, 1990, and 2000

Prevalence

Age-adjusted prevalence estimates by sex and by race are computed from:

- prevalence estimates prepared by the National Cancer Institute
- counts of the Rhode Island population in the census of 2000

Mortality

Age-adjusted mortality rates by sex and by race are computed from:

- death records from the Office of Vital Records, Rhode Island Department of Health
- counts of the Rhode Island population in the censuses of 1980, 1990, and 2000

Methods

Incidence and mortality rates and corresponding standard errors are calculated using SEERStat, software produced for public use by the Surveillance, Epidemiology, and End Results (SEER) Program of the National Cancer Institute. The algorithms for rates, as described in SEERStat documentation, are as follows:

Crude Rate

A crude rate is the number of cases per 100,000 in a given population.

$$\text{cruderate} = \frac{\text{count}}{\text{population}} \times 100,000$$

Age-adjusted Rate

An age-adjusted rate is a weighted average of crude rates, where the crude rates are calculated for different age groups and the weights are the proportions of persons in the corresponding age groups of a standard population. Several sets of standard populations are included in SEER*Stat. These include the total U.S. populations (1940, 1950, 1960, 1970, 1980, and 1990), an estimate of the U.S. 2000 population, 1991 Canadian population, and the world population. The age-adjusted rate for an age group comprised of the ages x through y is calculated using the following formula:

$$aarate_{x-y} = \sum_{i=x}^y \left[\left(\frac{count_i}{pop_i} \right) \times 100,000 \times \left(\frac{stdmil_i}{\sum_{j=x}^y stdmil_j} \right) \right]$$

where count is the number of cases for the ith age group, pop_i is the relevant population for the same age group, and stdmil_i is the standard population for the same age group.

Standard Error for a Crude Rate

This calculation assumes that the cancer counts have Poisson distributions.

$$SE_{crude} = \frac{\sqrt{count}}{population} \times 100,000$$

Standard Error for an Age-adjusted Rate

This calculation assumes that the cancer counts have Poisson distributions. Suppose that the age-adjusted rate is comprised of age groups x through y.

$$SE_{AARate} = \left[\sum_{i=x}^y \left(\frac{stdmil_i}{\sum_{j=x}^y stdmil_j} \right)^2 \times \left(\frac{count_i}{population_i^2} \right) \right]^{\frac{1}{2}} \times 100,000$$

Crude Rate Confidence Intervals

The endpoints of a p x 100% confidence interval are calculated as:

$$CI_{low} = \frac{\left(\frac{1}{2} \left(ChiInv \left(\frac{p}{2}, 2 \times count \right) \right) \right)}{population} \times 100,000$$

$$CI_{high} = \frac{\left(\frac{1}{2} \left(ChiInv \left(1 - \frac{p}{2}, 2 \times (count + 1) \right) \right) \right)}{population} \times 100,000$$

where Chi Inv(p,n) is the inverse of the chi-squared distribution function evaluated at p and with n degrees of freedom, and we define Chi Inv (p,0) = 0.

Although the normal approximation may be used with the standard errors to obtain confidence intervals when the count is large, we use the above exact method that holds even with small counts (see Johnson and Kotz, 1969, or Fay and Feuer, 1997). When the count is large the 2 methods produce similar results.

Age-adjusted Rate Confidence Intervals

Suppose that the age-adjusted rate is comprised of age groups x through y, and let:

$$w_i = \frac{stdml_i}{\left(pop_i \times \sum_{j=x}^y stdml_j \right)}$$

$$w_m = \max(w_i)$$

$$\nu = \sum_{i=x}^y (w_i^2 \times count_i)$$

The endpoints of a p x 100% confidence interval are calculated as:

$$CI_{low} = \left(\frac{\nu}{2 \times rate} \right) \times \left(ChiInv \left(\frac{p}{2}, \frac{(2 \times rate^2)}{\nu} \right) \right) \times 100,000$$

$$CI_{high} = \left(\frac{\nu + w_m^2}{2(rate + w_m)} \right) \times \left(ChiInv \left(1 - \frac{p}{2}, \frac{2(rate + w_m)^2}{(\nu + w_m^2)} \right) \right) \times 100,000$$

This method for calculating the confidence interval was developed in Fay and Feuer (1997). The method produces similar confidence limits to the standard normal approximation when the counts are large and the population being studied is similar to the standard population. In other cases, the above method is more likely to ensure proper coverage.

Note

"Rate" used in the above formulas is not per 100,000 population.

Source

SEERStat Version 4.2, April, 2002.

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**Table 1 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1997-2001, All Races, by Sex and Anatomical Site**

SITES	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Sites	15,093	633.1	5.2	14,530	452.6	3.8
Oral Cavity and Pharynx	365	15.1	0.8	205	6.5	0.5
Lip	27	1.2	0.2	19	0.6	0.1
Tongue	103	4.2	0.4	56	1.8	0.2
Salivary Gland	33	1.4	0.2	36	1.1	0.2
Floor of Mouth	28	1.2	0.2	14	0.4	0.1
Gum and Other Mouth	46	1.9	0.3	38	1.2	0.2
Nasopharynx	22	0.9	0.2	4	0.1	0.1
Oropharynx	30	1.2	0.2	11	0.4	0.1
Hypopharynx	39	1.6	0.3	15	0.5	0.1
Digestive System	3,040	129.1	2.4	3,035	86.5	1.6
Esophagus	231	9.6	0.6	91	2.7	0.3
Stomach	324	13.8	0.8	241	6.6	0.4
Small Intestine	55	2.3	0.3	54	1.6	0.2
Colon and Rectum	1,794	76.4	1.8	1,957	55.4	1.3
Colon excluding Rectum	1,242	53.2	1.5	1,501	42.3	1.1
Rectum and Rectosigmoid Junction	552	23.2	1.0	456	13.2	0.6
Anus, Anal Canal and Anorectum	29	1.2	0.2	53	1.7	0.2
Liver	160	6.6	0.5	69	2.0	0.2
Intrahepatic Bile Duct	34	1.4	0.2	29	0.9	0.2
Gallbladder	31	1.4	0.2	54	1.6	0.2
Pancreas	303	12.9	0.8	367	10.4	0.6
Respiratory System	2,748	114.8	2.2	2,085	64.4	1.4
Larynx	211	8.8	0.6	64	2.0	0.3
Lung and Bronchus	2,451	102.3	2.1	1,985	61.3	1.4
Bones and Joints	21	0.8	0.2	16	0.6	0.1
Soft Tissue including Heart	97	4.1	0.4	92	3.1	0.3
Skin excluding Basal and Squamous	654	27.3	1.1	477	15.8	0.7
Melanoma of the Skin	570	23.8	1.0	415	13.8	0.7
Breast	33	1.5	0.3	4,062	131.2	2.1
Female Genital System	0	0.0	~	1,699	55.6	1.4
Cervix Uteri	0	0.0	~	245	8.8	0.6
Corpus and Uterus, NOS	0	0.0	~	842	27.1	1.0
Ovary	0	0.0	~	442	14.5	0.7
Male Genital System	4,435	184.4	2.8	0	0.0	~
Prostate	4,251	177.1	2.7	0	0.0	~
Testis	156	6.1	0.5	0	0.0	~
Penis	18	0.8	0.2	0	0.0	~
Urinary System	1,759	74.2	1.8	805	24.3	0.9
Urinary Bladder	1,240	52.7	1.5	467	13.9	0.7
Kidney and Renal Pelvis	488	20.2	0.9	320	10.0	0.6
Ureter	23	1.0	0.2	15	0.4	0.1
Eye and Orbit	16	0.6	0.2	21	0.7	0.2
Brain and Other Nervous System	202	8.2	0.6	194	6.4	0.5
Brain	195	7.9	0.6	179	5.9	0.4
Endocrine System	108	4.3	0.4	348	12.6	0.7
Thyroid	89	3.6	0.4	327	11.8	0.7
Lymphoma	670	27.9	1.1	665	20.7	0.8
Hodgkin Lymphoma	90	3.6	0.4	90	3.2	0.3
Non-Hodgkin Lymphoma	580	24.3	1.0	575	17.5	0.7
Myeloma	159	6.8	0.5	148	4.4	0.4
Leukemia	422	17.9	0.9	291	9.0	0.5
Acute Lymphocytic Leukemia	55	2.3	0.3	37	1.5	0.2
Chronic Lymphocytic Leukemia	126	5.4	0.5	80	2.3	0.3
Acute Myeloid Leukemia	121	5.1	0.5	92	2.8	0.3
Acute Monocytic Leukemia	8	0.3	0.1	5	0.2	0.1
Chronic Myeloid Leukemia	56	2.3	0.3	37	1.1	0.2
Miscellaneous	364	16.0	0.8	387	10.8	0.6

- Statistic could not be calculated.

**Table 2 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1997-2001, Whites, by Sex and Anatomical Site**

SITES	Males (Whites)			Females (Whites)		
	Count	Rate	SE	Count	Rate	SE
All Sites	14,513	651.3	5.4	14,025	471.7	4.1
Oral Cavity and Pharynx	354	15.8	0.8	190	6.5	0.5
Lip	27	1.3	0.3	19	0.6	0.1
Tongue	102	4.5	0.5	53	1.9	0.3
Salivary Gland	31	1.4	0.3	34	1.1	0.2
Floor of Mouth	26	1.2	0.2	11	0.3	0.1
Gum and Other Mouth	46	2.1	0.3	36	1.2	0.2
Nasopharynx	19	0.9	0.2	4	0.1	0.1
Oropharynx	30	1.3	0.2	10	0.4	0.1
Hypopharynx	38	1.7	0.3	12	0.4	0.1
Digestive System	2,929	132.5	2.5	2,937	88.9	1.7
Esophagus	225	10.0	0.7	86	2.7	0.3
Stomach	308	14.0	0.8	227	6.6	0.5
Small Intestine	52	2.3	0.3	54	1.8	0.2
Colon and Rectum	1,748	79.1	1.9	1,901	57.0	1.3
Colon excluding Rectum	1,208	54.9	1.6	1,465	43.7	1.2
Rectum and Rectosigmoid Junction	540	24.2	1.0	436	13.4	0.7
Anus, Anal Canal and Anorectum	28	1.3	0.2	52	1.8	0.3
Liver	144	6.5	0.5	66	2.0	0.3
Intrahepatic Bile Duct	32	1.4	0.2	28	1.0	0.2
Gallbladder	28	1.3	0.2	52	1.6	0.2
Pancreas	291	13.2	0.8	354	10.7	0.6
Respiratory System	2,650	117.8	2.3	2,026	67.0	1.5
Larynx	198	8.8	0.6	61	2.0	0.3
Lung and Bronchus	2,367	105.1	2.2	1,929	63.8	1.5
Bones and Joints	19	0.9	0.2	14	0.6	0.2
Soft Tissue including Heart	95	4.4	0.5	86	3.3	0.4
Skin excluding Basal and Squamous	622	28.1	1.1	458	16.6	0.8
Melanoma of the Skin	545	24.6	1.1	396	14.5	0.7
Breast	29	1.4	0.3	3,924	137.2	2.2
Female Genital System	0	0.0	-	1,633	58.2	1.5
Cervix Uteri	0	0.0	-	229	9.3	0.6
Corpus and Uterus, NOS	0	0.0	-	812	28.3	1.0
Ovary	0	0.0	-	427	15.2	0.8
Male Genital System	4,238	188.1	2.9	0	0.0	-
Prostate	4,062	180.0	2.8	0	0.0	-
Testis	151	6.9	0.6	0	0.0	-
Penis	16	0.7	0.2	0	0.0	-
Urinary System	1,721	77.4	1.9	785	25.4	0.9
Urinary Bladder	1,224	55.2	1.6	461	14.6	0.7
Kidney and Renal Pelvis	467	20.8	1.0	306	10.3	0.6
Ureter	22	1.0	0.2	15	0.4	0.1
Eye and Orbit	14	0.6	0.2	19	0.7	0.2
Brain and Other Nervous System	200	9.1	0.6	189	7.0	0.5
Brain	193	8.7	0.6	174	6.4	0.5
Endocrine System	100	4.5	0.5	325	13.3	0.7
Thyroid	82	3.7	0.4	307	12.6	0.7
Lymphoma	636	28.8	1.1	635	21.5	0.9
Hodgkin Lymphoma	84	3.8	0.4	83	3.4	0.4
Non-Hodgkin Lymphoma	552	24.9	1.1	552	18.0	0.8
Myeloma	151	6.9	0.6	142	4.5	0.4
Leukemia	408	18.9	0.9	285	9.8	0.6
Acute Lymphocytic Leukemia	54	2.7	0.4	36	1.8	0.3
Chronic Lymphocytic Leukemia	121	5.5	0.5	80	2.4	0.3
Acute Myeloid Leukemia	115	5.3	0.5	87	2.9	0.3
Acute Monocytic Leukemia	8	0.4	0.1	5	0.2	0.1
Chronic Myeloid Leukemia	55	2.5	0.3	37	1.2	0.2
Miscellaneous	347	16.1	0.9	377	11.1	0.6

- Statistic could not be calculated.

**Table 3 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island, 1997-2001, Blacks, by Sex and Anatomical Site**

SITES	Males (Blacks)			Females (Blacks)		
	Count	Rate	SE	Count	Rate	SE
All Sites	391	674.8	37.7	315	422.5	24.7
Oral Cavity and Pharynx	7	9.6	3.7	9	11.4	3.9
Lip	0	0.0	~	0	0.0	~
Tongue	1	1.3	1.3	2	2.3	1.6
Salivary Gland	0	0.0	~	1	2.1	2.1
Floor of Mouth	2	2.3	1.6	0	0.0	~
Gum and Other Mouth	0	0.0	~	2	2.1	1.5
Nasopharynx	2	2.6	1.9	0	0.0	~
Oropharynx	0	0.0	~	0	0.0	~
Hypopharynx	0	0.0	~	3	3.9	2.2
Digestive System	67	129.4	17.6	68	102.1	12.8
Esophagus	5	7.1	3.3	4	6.0	3.0
Stomach	9	17.3	6.0	13	19.1	5.5
Small Intestine	2	5.6	4.1	0	0.0	~
Colon and Rectum	28	57.5	12.1	36	54.6	9.4
Colon excluding Rectum	20	41.7	10.6	26	37.9	7.7
Rectum and Rectosigmoid Junction	8	15.8	5.9	10	16.7	5.4
Anus, Anal Canal and Anorectum	1	0.7	0.7	0	0.0	~
Liver	6	8.7	3.7	0	0.0	~
Intrahepatic Bile Duct	1	1.9	1.9	1	1.4	1.4
Gallbladder	2	9.2	6.8	1	1.2	1.2
Pancreas	10	16.2	5.2	12	17.9	5.4
Respiratory System	79	138.7	17.4	51	71.0	10.2
Larynx	9	14.7	5.2	3	4.1	2.4
Lung and Bronchus	70	124.1	16.6	48	66.9	9.9
Bones and Joints	1	0.9	0.9	1	0.8	0.8
Soft Tissue including Heart	1	1.3	1.3	3	2.8	1.7
Skin excluding Basal and Squamous	6	5.0	2.1	1	1.2	1.2
Melanoma of the Skin	0	0.0	~	1	1.2	1.2
Breast	3	5.7	3.3	93	120.3	12.8
Female Genital System	0	0.0	~	29	38.1	7.3
Cervix Uteri	0	0.0	~	8	9.1	3.3
Corpus and Uterus, NOS	0	0.0	~	14	20.4	5.6
Ovary	0	0.0	~	5	6.0	2.8
Male Genital System	147	261.9	23.3	0	0.0	~
Prostate	141	253.6	23.0	0	0.0	~
Testis	3	2.2	1.3	0	0.0	~
Penis	2	5.2	3.8	0	0.0	~
Urinary System	26	41.5	8.7	16	21.9	5.7
Urinary Bladder	10	17.3	5.9	6	9.8	4.1
Kidney and Renal Pelvis	16	24.2	6.3	10	12.1	4.0
Ureter	0	0.0	~	0	0.0	~
Eye and Orbit	0	0.0	~	0	0.0	~
Brain and Other Nervous System	2	1.9	1.3	3	4.5	2.7
Brain	2	1.9	1.3	3	4.5	2.7
Endocrine System	5	5.4	2.5	11	10.5	3.3
Thyroid	5	5.4	2.5	10	9.3	3.0
Lymphoma	23	28.4	6.3	17	19.5	5.0
Hodgkin Lymphoma	5	4.4	2.0	6	5.8	2.5
Non-Hodgkin Lymphoma	18	24.0	5.9	11	13.7	4.3
Myeloma	6	10.9	4.6	5	7.8	3.5
Leukemia	6	7.4	3.3	2	2.7	2.2
Acute Lymphocytic Leukemia	0	0.0	~	0	0.0	~
Chronic Lymphocytic Leukemia	1	1.0	1.0	0	0.0	~
Acute Myeloid Leukemia	4	4.8	2.7	2	2.7	2.2
Acute Monocytic Leukemia	0	0.0	~	0	0.0	~
Chronic Myeloid Leukemia	1	1.6	1.6	0	0.0	~
Miscellaneous	12	26.6	9.0	6	7.9	3.4

- Statistic could not be calculated.

**Table 4 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1997-2001, All Races, by Sex and Anatomical Site**

SITES	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Sites	15,093	523.0	4.3	14,530	378.7	3.4
Oral Cavity and Pharynx	365	12.9	0.7	205	5.4	0.4
Lip	27	0.9	0.2	19	0.5	0.1
Tongue	103	3.6	0.4	56	1.6	0.2
Salivary Gland	33	1.2	0.2	36	0.9	0.2
Floor of Mouth	28	1.0	0.2	14	0.3	0.1
Gum and Other Mouth	46	1.6	0.2	38	1.0	0.2
Nasopharynx	22	0.8	0.2	4	0.1	0.0
Oropharynx	30	1.1	0.2	11	0.3	0.1
Hypopharynx	39	1.4	0.2	15	0.4	0.1
Digestive System	3,040	103.1	1.9	3,035	68.2	1.4
Esophagus	231	8.2	0.5	91	2.2	0.2
Stomach	324	10.6	0.6	241	5.0	0.4
Small Intestine	55	1.8	0.3	54	1.4	0.2
Colon and Rectum	1,794	60.7	1.5	1,957	43.5	1.1
Colon excluding Rectum	1,242	41.6	1.2	1,501	33.0	0.9
Rectum and Rectosigmoid Junction	552	19.1	0.8	456	10.4	0.5
Anus, Anal Canal and Anorectum	29	1.0	0.2	53	1.4	0.2
Liver	160	5.6	0.5	69	1.6	0.2
Intrahepatic Bile Duct	34	1.1	0.2	29	0.8	0.2
Gallbladder	31	1.0	0.2	54	1.3	0.2
Pancreas	303	10.4	0.6	367	8.2	0.5
Respiratory System	2,748	95.7	1.9	2,085	55.2	1.3
Larynx	211	7.6	0.5	64	1.7	0.2
Lung and Bronchus	2,451	85.1	1.7	1,985	52.6	1.3
Bones and Joints	21	0.8	0.2	16	0.5	0.1
Soft Tissue including Heart	97	3.3	0.3	92	2.8	0.3
Skin excluding Basal and Squamous	654	22.4	0.9	477	13.2	0.6
Melanoma of the Skin	570	19.6	0.8	415	11.6	0.6
Breast	33	1.1	0.2	4,062	110.3	1.8
Female Genital System	0	0.0	~	1,699	47.8	1.2
Cervix Uteri	0	0.0	~	245	7.3	0.5
Corpus and Uterus, NOS	0	0.0	~	842	23.7	0.9
Ovary	0	0.0	~	442	12.5	0.6
Male Genital System	4,435	156.6	2.4	0	0.0	~
Prostate	4,251	150.5	2.3	0	0.0	~
Testis	156	5.2	0.4	0	0.0	~
Penis	18	0.6	0.1	0	0.0	~
Urinary System	1,759	60.0	1.5	805	20.3	0.8
Urinary Bladder	1,240	42.0	1.2	467	11.4	0.6
Kidney and Renal Pelvis	488	16.9	0.8	320	8.6	0.5
Ureter	23	0.8	0.2	15	0.3	0.1
Eye and Orbit	16	0.5	0.1	21	0.7	0.2
Brain and Other Nervous System	202	7.1	0.5	194	5.9	0.5
Brain	195	6.8	0.5	179	5.4	0.4
Endocrine System	108	3.9	0.4	348	10.9	0.6
Thyroid	89	3.1	0.3	327	10.2	0.6
Lymphoma	670	23.1	0.9	665	17.6	0.7
Hodgkin Lymphoma	90	3.3	0.4	90	3.1	0.3
Non-Hodgkin Lymphoma	580	19.9	0.8	575	14.5	0.7
Myeloma	159	5.3	0.4	148	3.6	0.3
Leukemia	422	15.0	0.8	291	8.0	0.5
Acute Lymphocytic Leukemia	55	2.5	0.3	37	1.8	0.3
Chronic Lymphocytic Leukemia	126	4.4	0.4	80	1.8	0.2
Acute Myeloid Leukemia	121	4.2	0.4	92	2.3	0.3
Acute Monocytic Leukemia	8	0.3	0.1	5	0.2	0.1
Chronic Myeloid Leukemia	56	1.9	0.3	37	0.9	0.2
Miscellaneous	364	12.1	0.6	387	8.4	0.5

~ Statistic could not be calculated.

**Table 5 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1997-2001, Whites, by Sex and Anatomical Site**

SITES	Males (Whites)			Females (Whites)		
	Count	Rate	SE	Count	Rate	SE
All Sites	14,513	539.0	4.6	14,025	395.9	3.6
Oral Cavity and Pharynx	354	13.5	0.7	190	5.4	0.4
Lip	27	0.9	0.2	19	0.5	0.1
Tongue	102	3.9	0.4	53	1.6	0.2
Salivary Gland	31	1.1	0.2	34	0.9	0.2
Floor of Mouth	26	1.0	0.2	11	0.3	0.1
Gum and Other Mouth	46	1.7	0.3	36	1.0	0.2
Nasopharynx	19	0.7	0.2	4	0.1	0.0
Oropharynx	30	1.2	0.2	10	0.3	0.1
Hypopharynx	38	1.5	0.2	12	0.3	0.1
Digestive System	2,929	105.9	2.0	2,937	70.4	1.4
Esophagus	225	8.5	0.6	86	2.2	0.3
Stomach	308	10.8	0.6	227	5.1	0.4
Small Intestine	52	1.8	0.3	54	1.5	0.2
Colon and Rectum	1,748	63.0	1.5	1,901	44.9	1.1
Colon excluding Rectum	1,208	43.0	1.3	1,465	34.3	1.0
Rectum and Rectosigmoid Junction	540	20.0	0.9	436	10.7	0.6
Anus, Anal Canal and Anorectum	28	1.0	0.2	52	1.5	0.2
Liver	144	5.4	0.5	66	1.6	0.2
Intrahepatic Bile Duct	32	1.1	0.2	28	0.8	0.2
Gallbladder	28	1.0	0.2	52	1.3	0.2
Pancreas	291	10.6	0.6	354	8.5	0.5
Respiratory System	2,650	98.4	1.9	2,026	57.6	1.4
Larynx	198	7.7	0.6	61	1.7	0.2
Lung and Bronchus	2,367	87.6	1.8	1,929	54.8	1.3
Bones and Joints	19	0.9	0.2	14	0.5	0.2
Soft Tissue including Heart	95	3.5	0.4	86	2.9	0.4
Skin excluding Basal and Squamous	622	23.1	0.9	458	13.9	0.7
Melanoma of the Skin	545	20.3	0.9	396	12.2	0.6
Breast	29	1.0	0.2	3,924	115.4	2.0
Female Genital System	0	0.0	~	1,633	50.1	1.3
Cervix Uteri	0	0.0	~	229	7.6	0.5
Corpus and Uterus, NOS	0	0.0	~	812	24.8	0.9
Ovary	0	0.0	~	427	13.2	0.7
Male Genital System	4,238	159.9	2.5	0	0.0	~
Prostate	4,062	153.1	2.4	0	0.0	~
Testis	151	5.9	0.5	0	0.0	~
Penis	16	0.5	0.1	0	0.0	~
Urinary System	1,721	62.6	1.5	785	21.3	0.8
Urinary Bladder	1,224	44.2	1.3	461	12.1	0.6
Kidney and Renal Pelvis	467	17.4	0.8	306	8.9	0.6
Ureter	22	0.8	0.2	15	0.3	0.1
Eye and Orbit	14	0.5	0.1	19	0.6	0.1
Brain and Other Nervous System	200	7.9	0.6	189	6.5	0.5
Brain	193	7.6	0.6	174	5.9	0.5
Endocrine System	100	4.1	0.4	325	11.5	0.7
Thyroid	82	3.2	0.4	307	10.8	0.6
Lymphoma	636	23.9	1.0	635	18.4	0.8
Hodgkin Lymphoma	84	3.5	0.4	83	3.4	0.4
Non-Hodgkin Lymphoma	552	20.4	0.9	552	15.0	0.7
Myeloma	151	5.3	0.4	142	3.8	0.3
Leukemia	408	16.1	0.8	285	8.8	0.6
Acute Lymphocytic Leukemia	54	3.0	0.4	36	2.1	0.4
Chronic Lymphocytic Leukemia	121	4.5	0.4	80	1.9	0.2
Acute Myeloid Leukemia	115	4.4	0.4	87	2.4	0.3
Acute Monocytic Leukemia	8	0.3	0.1	5	0.2	0.1
Chronic Myeloid Leukemia	55	2.1	0.3	37	1.0	0.2
Miscellaneous	347	12.2	0.7	377	8.7	0.5

~ Statistic could not be calculated.

**Table 6 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island, 1997-2001, Blacks, by Sex and Anatomical Site**

SITES	Males (Blacks)			Females (Blacks)		
	Count	Rate	SE	Count	Rate	SE
All Sites	391	565.3	29.8	315	342.6	19.8
Oral Cavity and Pharynx	7	8.7	3.4	9	9.5	3.2
Lip	0	0.0	~	0	0.0	~
Tongue	1	1.1	1.1	2	2.2	1.6
Salivary Gland	0	0.0	~	1	1.0	1.0
Floor of Mouth	2	1.9	1.4	0	0.0	~
Gum and Other Mouth	0	0.0	~	2	1.9	1.4
Nasopharynx	2	2.4	1.8	0	0.0	~
Oropharynx	0	0.0	~	0	0.0	~
Hypopharynx	0	0.0	~	3	3.5	2.0
Digestive System	67	102.5	13.0	68	74.5	9.2
Esophagus	5	6.6	3.1	4	4.6	2.3
Stomach	9	14.0	4.8	13	13.7	3.9
Small Intestine	2	3.7	2.6	0	0.0	~
Colon and Rectum	28	43.8	8.6	36	40.3	6.8
Colon excluding Rectum	20	31.0	7.3	26	28.4	5.7
Rectum and Rectosigmoid Junction	8	12.8	4.6	10	11.9	3.8
Anus, Anal Canal and Anorectum	1	0.6	0.6	0	0.0	~
Liver	6	8.2	3.5	0	0.0	~
Intrahepatic Bile Duct	1	1.6	1.6	1	1.2	1.2
Gallbladder	2	4.9	3.5	1	1.2	1.2
Pancreas	10	14.8	4.8	12	12.4	3.6
Respiratory System	79	115.4	13.5	51	60.2	8.5
Larynx	9	13.2	4.5	3	3.7	2.2
Lung and Bronchus	70	102.3	12.7	48	56.4	8.2
Bones and Joints	1	0.7	0.7	1	0.6	0.6
Soft Tissue including Heart	1	1.1	1.1	3	2.7	1.6
Skin excluding Basal and Squamous	6	4.2	1.7	1	1.2	1.2
Melanoma of the Skin	0	0.0	~	1	1.2	1.2
Breast	3	4.8	2.8	93	101.4	10.8
Female Genital System	0	0.0	~	29	31.9	6.1
Cervix Uteri	0	0.0	~	8	7.2	2.7
Corpus and Uterus, NOS	0	0.0	~	14	16.9	4.6
Ovary	0	0.0	~	5	5.6	2.6
Male Genital System	147	225.5	19.1	0	0.0	~
Prostate	141	218.9	18.8	0	0.0	~
Testis	3	2.2	1.3	0	0.0	~
Penis	2	3.7	2.6	0	0.0	~
Urinary System	26	35.6	7.3	16	16.7	4.3
Urinary Bladder	10	14.2	4.7	6	6.8	2.8
Kidney and Renal Pelvis	16	21.4	5.6	10	9.9	3.3
Ureter	0	0.0	~	0	0.0	~
Eye and Orbit	0	0.0	~	0	0.0	~
Brain and Other Nervous System	2	1.4	1.0	3	3.6	2.1
Brain	2	1.4	1.0	3	3.6	2.1
Endocrine System	5	4.8	2.3	11	9.4	2.9
Thyroid	5	4.8	2.3	10	8.1	2.6
Lymphoma	23	24.9	5.6	17	16.8	4.3
Hodgkin Lymphoma	5	4.1	1.9	6	5.4	2.3
Non-Hodgkin Lymphoma	18	20.8	5.3	11	11.4	3.6
Myeloma	6	9.3	3.8	5	5.7	2.5
Leukemia	6	6.1	2.7	2	1.8	1.3
Acute Lymphocytic Leukemia	0	0.0	~	0	0.0	~
Chronic Lymphocytic Leukemia	1	0.8	0.8	0	0.0	~
Acute Myeloid Leukemia	4	3.7	2.0	2	1.8	1.3
Acute Monocytic Leukemia	0	0.0	~	0	0.0	~
Chronic Myeloid Leukemia	1	1.6	1.6	0	0.0	~
Miscellaneous	12	20.1	6.1	6	6.6	2.8

~ Statistic could not be calculated.

**Table 7 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 2000 Standard)
Rhode Island Counties, 1997-2001, All Races, by Sex and Selected Anatomical Site**

Counties / Sites	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Counties						
All Sites	15,093	633.1	5.2	14,530	452.6	3.8
Colon and Rectum	1,794	76.4	1.8	1,957	55.4	1.3
Lung and Bronchus	2,451	102.3	2.1	1,985	61.3	1.4
Melanoma of the Skin	570	23.8	1.0	415	13.8	0.7
Breast	33	1.5	0.3	4,062	131.2	2.1
Cervix Uteri	0	0.0	~	245	8.8	0.6
Prostate	4,251	177.1	2.7	0	0.0	~
Bristol County						
All Sites	838	633.0	22.1	731	433.6	16.4
Colon and Rectum	102	79.3	8.0	90	47.5	5.1
Lung and Bronchus	126	93.5	8.4	79	44.4	5.1
Melanoma of the Skin	38	29.8	4.9	22	13.9	3.0
Breast	3	2.1	1.2	223	141.2	9.6
Cervix Uteri	0	0.0	~	4	2.9	1.5
Prostate	236	175.9	11.6	0	0.0	~
Kent County						
All Sites	2,661	664.7	13.1	2,530	476.2	9.6
Colon and Rectum	347	88.6	4.9	317	55.2	3.1
Lung and Bronchus	464	113.4	5.3	363	66.9	3.6
Melanoma of the Skin	99	23.9	2.4	79	15.9	1.8
Breast	3	0.7	0.4	748	143.9	5.3
Cervix Uteri	0	0.0	~	42	9.0	1.4
Prostate	697	172.6	6.6	0	0.0	~
Newport County						
All Sites	1,272	620.5	17.6	1,265	482.4	13.7
Colon and Rectum	151	75.0	6.2	173	61.7	4.8
Lung and Bronchus	165	79.7	6.3	196	74.2	5.3
Melanoma of the Skin	59	28.0	3.7	44	17.6	2.7
Breast	2	0.9	0.6	352	136.8	7.4
Cervix Uteri	0	0.0	~	16	6.8	1.7
Prostate	451	217.1	10.3	0	0.0	~
Providence County						
All Sites	8,483	618.2	6.7	8,440	443.0	5.0
Colon and Rectum	991	72.9	2.3	1,177	54.8	1.7
Lung and Bronchus	1,435	104.4	2.8	1,124	58.7	1.8
Melanoma of the Skin	292	21.3	1.3	214	12.3	0.9
Breast	22	1.7	0.4	2,245	123.1	2.7
Cervix Uteri	0	0.0	~	161	10.0	0.8
Prostate	2,270	165.1	3.5	0	0.0	~
Washington County						
All Sites	1,837	671.6	15.9	1,564	454.5	11.5
Colon and Rectum	202	76.2	5.5	200	56.2	4.0
Lung and Bronchus	261	94.9	5.9	223	65.5	4.4
Melanoma of the Skin	82	29.2	3.3	56	16.3	2.2
Breast	3	1.0	0.6	494	145.1	6.6
Cervix Uteri	0	0.0	~	22	6.7	1.4
Prostate	597	217.3	9.0	0	0.0	~

~ Statistic could not be calculated.

**Table 8 Total Cancer Cases and Average Annual Age-adjusted Cancer Incidence Rates (U.S. Year 1970 Standard)
Rhode Island Counties, 1997-2001, All Races, by Sex and Selected Anatomical Site**

Counties / Sites	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Counties						
All Sites	15,093	523.0	4.3	14,530	378.7	3.4
Colon and Rectum	1,794	60.7	1.5	1,957	43.5	1.1
Lung and Bronchus	2,451	85.1	1.7	1,985	52.6	1.3
Melanoma of the Skin	570	19.6	0.8	415	11.6	0.6
Breast	33	1.1	0.2	4,062	110.3	1.8
Cervix Uteri	0	0.0	~	245	7.3	0.5
Prostate	4,251	150.5	2.3	0	0.0	~
Bristol County						
All Sites	838	517.8	18.3	731	360.0	14.3
Colon and Rectum	102	60.5	6.1	90	36.2	4.1
Lung and Bronchus	126	75.2	6.9	79	37.6	4.5
Melanoma of the Skin	38	25.0	4.1	22	11.4	2.6
Breast	3	1.8	1.0	223	118.1	8.3
Cervix Uteri	0	0.0	~	4	2.1	1.1
Prostate	236	148.9	9.9	0	0.0	~
Kent County						
All Sites	2,661	545.5	10.7	2,530	402.9	8.5
Colon and Rectum	347	69.7	3.8	317	44.0	2.6
Lung and Bronchus	464	95.5	4.5	363	57.6	3.2
Melanoma of the Skin	99	20.1	2.0	79	13.1	1.5
Breast	3	0.6	0.4	748	122.9	4.7
Cervix Uteri	0	0.0	~	42	7.7	1.2
Prostate	697	144.4	5.5	0	0.0	~
Newport County						
All Sites	1,272	518.6	14.7	1,265	406.1	12.1
Colon and Rectum	151	59.6	4.9	173	48.5	4.0
Lung and Bronchus	165	67.9	5.3	196	64.4	4.8
Melanoma of the Skin	59	23.7	3.1	44	14.7	2.3
Breast	2	0.9	0.6	352	116.3	6.4
Cervix Uteri	0	0.0	~	16	5.5	1.4
Prostate	451	187.6	8.9	0	0.0	~
Providence County						
All Sites	8,483	510.9	5.7	8,440	369.1	4.4
Colon and Rectum	991	58.3	1.9	1,177	42.7	1.4
Lung and Bronchus	1,435	86.5	2.3	1,124	50.0	1.6
Melanoma of the Skin	292	17.2	1.0	214	10.4	0.7
Breast	22	1.2	0.3	2,245	102.8	2.3
Cervix Uteri	0	0.0	~	161	8.2	0.7
Prostate	2,270	140.3	3.0	0	0.0	~
Washington County						
All Sites	1,837	556.4	13.1	1,564	381.0	10.0
Colon and Rectum	202	60.5	4.3	200	44.7	3.3
Lung and Bronchus	261	79.7	5.0	223	57.1	3.9
Melanoma of the Skin	82	24.3	2.7	56	13.7	1.9
Breast	3	1.0	0.6	494	121.7	5.7
Cervix Uteri	0	0.0	~	22	5.5	1.2
Prostate	597	184.6	7.6	0	0.0	~

~ Statistic could not be calculated.

**Table 9 Estimated Number of Rhode Islanders Alive in the Year 2000 Diagnosed with Cancer in the Past 20 Years
(1981-2000), by Race, Sex and Selected Anatomical Site**

Sites	Males			Females		
	All Races	Whites	Blacks	All Races	Whites	Blacks
All Sites	14679	14042	349	17703	17200	332
Colon and Rectum	1780	1687	36	2023	1927	41
Lung and Bronchus	647	599	20	632	620	14
Melanomas of the Skin	850	894	1	881	934	1
Breast	~	~	~	7401	7242	139
Cervix	~	~	~	578	494	22
Prostate	6132	5770	180	~	~	~

~ Statistic could not be calculated.

**Table 10 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 2000 Standard)
Rhode Island, 1996-2000, All Races by Sex and Anatomical Site**

SITES	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	6,188	270.7	3.5	6,171	179.0	2.3
Oral Cavity and Pharynx	79	3.4	0.4	64	1.8	0.2
Lip	0	0.0	~	0	0.0	~
Tongue	23	1.0	0.2	16	0.4	0.1
Salivary Gland	2	0.1	0.1	10	0.3	0.1
Floor of Mouth	1	0.0	0.0	2	0.1	0.0
Gum and Other Mouth	13	0.6	0.2	11	0.3	0.1
Nasopharynx	4	0.2	0.1	7	0.2	0.1
Oropharynx	10	0.4	0.1	3	0.1	0.1
Hypopharynx	4	0.2	0.1	2	0.1	0.1
Digestive System	1,615	70.8	1.8	1,522	41.7	1.1
Esophagus	194	8.3	0.6	76	2.1	0.2
Stomach	215	9.5	0.7	153	4.2	0.3
Small Intestine	7	0.3	0.1	15	0.4	0.1
Colon and Rectum	648	28.9	1.2	747	20.1	0.8
Colon excluding Rectum	537	24.1	1.1	648	17.4	0.7
Rectum and Rectosigmoid Junction	111	4.8	0.5	99	2.7	0.3
Anus, Anal Canal and Anorectum	5	0.2	0.1	4	0.1	0.1
Liver	137	5.8	0.5	57	1.6	0.2
Gallbladder	20	0.9	0.2	31	0.9	0.2
Pancreas	328	14.1	0.8	347	9.7	0.5
Respiratory System	2,120	90.4	2.0	1,534	46	1.2
Larynx	88	3.8	0.4	23	0.7	0.1
Lung and Bronchus	2,016	85.9	1.9	1,500	45	1.2
Bones and Joints	9	0.4	0.1	11	0.4	0.1
Soft Tissue including Heart	50	2.1	0.3	47	1.4	0.2
Skin excluding Basal and Squamous	115	5.3	0.5	107	3.1	0.3
Melanomas of the Skin	75	3.3	0.4	82	2.5	0.3
Breast	6	0.3	0.1	970	29.2	1.0
Female Genital System	0	0.0	~	519	15.8	0.7
Cervix	0	0.0	~	84	2.8	0.3
Corpus	0	0.0	~	66	2.0	0.3
Uterus, NOS	0	0.0	~	53	1.5	0.2
Ovary	0	0.0	~	287	8.7	0.5
Male Genital System	714	33.6	1.3	0	0.0	~
Prostate	702	33.1	1.3	0	0.0	~
Testis	9	0.3	0.1	0	0.0	~
Penis	1	0.0	0.0	0	0.0	~
Urinary System	325	14.5	0.8	233	6.4	0.4
Urinary Bladder	182	8.3	0.6	115	3.1	0.3
Kidney and Renal Pelvis	136	6.0	0.5	109	3.1	0.3
Ureter	4	0.2	0.1	4	0.1	0.0
Eye and Orbit	2	0.1	0.1	2	0.0	0.0
Brain and Other Nervous System	145	6.0	0.5	155	4.7	0.4
Brain	144	0.0	0.5	153	4.6	0.4
Endocrine System	19	0.8	0.2	22	0.7	0.1
Thyroid	16	0.7	0.2	14	0.4	0.1
Lymphomas	294	12.7	0.7	297	8.3	0.5
Hodgkins Disease	16	0.7	0.2	19	0.6	0.1
Non-Hodgkins Lymphomas	278	12.0	0.7	278	7.8	0.5
Multiple Myeloma	79	3.5	0.4	97	2.8	0.3
Leukemias	235	10.3	0.7	181	5.3	0.4
Acute Lymphocytic Leukemia	18	0.8	0.2	16	0.5	0.1
Chronic Lymphocytic Leukemia	54	2.5	0.3	28	0.7	0.1
Other Lymphocytic Leukemia	11	0.5	0.1	6	0.2	0.1
Acute Myeloid Leukemia	71	3.0	0.4	58	1.8	0.2
Chronic Myeloid Leukemia	16	0.7	0.2	18	0.6	0.1
Monocytic Leukemia	5	0.2	0.1	3	0.1	0.0
Other Leukemia	55	2.4	0.3	50	1.5	0.2
Miscellaneous Malignant Cancer	381	16.6	0.9	410	11.4	0.6

~ Statistic could not be calculated.

**Table 11 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 2000 Standard)
Rhode Island, 1996-2000, Whites by Sex and Anatomical Site**

SITES	Males (Whites)			Females (Whites)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	6,009	277.9	3.6	5,998	184.4	2.5
Oral Cavity and Pharynx	77	3.6	0.4	62	1.8	0.2
Lip	0	0.0	~	0	0.0	~
Tongue	22	1.1	0.2	16	0.5	0.1
Salivary Gland	2	0.1	0.1	10	0.3	0.1
Floor of Mouth	1	0.0	0.0	2	0.1	0.0
Gum and Other Mouth	13	0.6	0.2	10	0.3	0.1
Nasopharynx	4	0.2	0.1	7	0.2	0.1
Oropharynx	10	0.5	0.1	3	0.1	0.1
Hypopharynx	4	0.2	0.1	1	0.0	0.0
Digestive System	1,566	72.5	1.9	1,477	42.5	1.1
Esophagus	186	8.4	0.6	74	2.2	0.3
Stomach	207	9.7	0.7	149	4.3	0.4
Small Intestine	6	0.3	0.1	15	0.4	0.1
Colon and Rectum	636	29.9	1.2	726	20.5	0.8
Colon excluding Rectum	526	24.8	1.1	629	17.7	0.7
Rectum and Rectosigmoid Junction	110	5.0	0.5	97	2.8	0.3
Anus, Anal Canal and Anorectum	5	0.2	0.1	3	0.1	0.1
Liver	132	6.0	0.5	57	1.7	0.2
Gallbladder	19	0.9	0.2	31	1.0	0.2
Pancreas	317	14.4	0.8	335	9.9	0.6
Respiratory System	2,057	92.6	2.1	1,496	47.6	1.3
Larynx	87	3.9	0.4	22	0.7	0.1
Lung and Bronchus	1,954	88.0	2.0	1,463	46.6	1.2
Bones and Joints	9	0.5	0.2	10	0.4	0.1
Soft Tissue including Heart	49	2.2	0.3	45	1.5	0.2
Skin excluding Basal and Squamous	115	5.6	0.5	105	3.3	0.3
Melanomas of the Skin	75	3.5	0.4	80	2.6	0.3
Breast	6	0.3	0.1	944	30.2	1.0
Female Genital System	0	0.0	~	503	16.3	0.7
Cervix	0	0.0	~	81	3.0	0.3
Corpus	0	0.0	~	62	2.0	0.3
Uterus, NOS	0	0.0	~	52	1.6	0.2
Ovary	0	0.0	~	279	8.9	0.5
Male Genital System	688	33.9	1.3	0	0.0	~
Prostate	676	33.3	1.3	0	0.0	~
Testis	9	0.4	0.1	0	0.0	~
Penis	1	0.0	0.0	0	0.0	~
Urinary System	320	15.1	0.9	229	6.7	0.5
Urinary Bladder	181	8.6	0.6	112	3.2	0.3
Kidney and Renal Pelvis	132	6.1	0.5	108	3.3	0.3
Ureter	4	0.2	0.1	4	0.1	0.0
Eye and Orbit	2	0.1	0.1	2	0.0	0.0
Brain and Other Nervous System	143	6.5	0.5	153	5.0	0.4
Brain	142	6.4	0.5	151	4.9	0.4
Endocrine System	19	0.8	0.2	20	0.6	0.1
Thyroid	16	0.7	0.2	12	0.3	0.1
Lymphomas	287	13.2	0.8	290	8.6	0.5
Hodgkins Disease	15	0.7	0.2	18	0.6	0.1
Non-Hodgkins Lymphomas	272	12.5	0.8	272	8.0	0.5
Multiple Myeloma	77	3.6	0.4	88	2.6	0.3
Leukemias	227	10.6	0.7	175	5.5	0.4
Acute Lymphocytic Leukemia	17	0.8	0.2	15	0.6	0.1
Chronic Lymphocytic Leukemia	52	2.5	0.4	28	0.8	0.1
Other Lymphocytic Leukemia	11	0.5	0.1	6	0.2	0.1
Acute Myeloid Leukemia	69	3.2	0.4	57	1.9	0.3
Chronic Myeloid Leukemia	14	0.6	0.2	18	0.6	0.1
Monocytic Leukemia	5	0.2	0.1	3	0.1	0.0
Other Leukemia	54	2.5	0.4	46	1.5	0.2
Miscellaneous Malignant Cancer	367	17.0	0.9	399	11.7	0.6

~ Statistic could not be calculated.

**Table 12 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 2000 Standard)
Rhode Island, 1996-2000, Blacks by Sex and Anatomical Site**

SITES	Males (Blacks)			Females (Blacks)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	165	356.8	32.0	160	236.2	19.3
Oral Cavity and Pharynx	2	3.2	2.3	1	1.2	1.2
Lip	0	0.0	~	0	0.0	~
Tongue	1	1.6	1.6	0	0.0	~
Salivary Gland	0	0.0	~	0	0.0	~
Floor of Mouth	0	0.0	~	0	0.0	~
Gum and Other Mouth	0	0.0	~	0	0.0	~
Nasopharynx	0	0.0	~	0	0.0	~
Oropharynx	0	0.0	~	0	0.0	~
Hypopharynx	0	0.0	~	1	1.2	1.2
Digestive System	46	106.8	18.2	43	69.1	10.8
Esophagus	8	16.7	7.1	2	2.7	1.9
Stomach	8	17.2	6.6	4	6.7	3.4
Small Intestine	1	3.5	3.5	0	0.0	~
Colon and Rectum	10	26.3	9.7	20	33.8	7.8
Colon excluding Rectum	9	23.8	9.4	19	31.8	7.5
Rectum and Rectosigmoid Junction	1	2.5	2.5	1	2.0	2.0
Anus, Anal Canal and Anorectum	0	0.0	~	1	1.4	1.4
Liver	5	9.9	4.8	0	0.0	~
Gallbladder	1	5.7	5.7	0	0.0	~
Pancreas	10	17.4	5.6	12	19.3	5.7
Respiratory System	57	117.9	18.3	35	51.5	9.0
Larynx	1	1.3	1.3	1	1.4	1.4
Lung and Bronchus	56	116.6	18.3	34	50.1	8.9
Bones and Joints	0	0.0	~	1	0.8	0.8
Soft Tissue including Heart	1	1.6	1.6	2	2.1	1.5
Skin excluding Basal and Squamous	0	0.0	~	2	2.6	1.8
Melanomas of the Skin	0	0.0	~	2	2.6	1.8
Breast	0	0.0	~	25	34.1	6.9
Female Genital System	0	0.0	~	16	21.3	5.5
Cervix	0	0.0	~	3	3.9	2.4
Corpus	0	0.0	~	4	5.8	3.0
Uterus, NOS	0	0.0	~	1	1.4	1.4
Ovary	0	0.0	~	8	10.2	3.7
Male Genital System	25	71.3	15.5	0	0.0	~
Prostate	25	71.3	15.5	0	0.0	~
Testis	0	0.0	~	0	0.0	~
Penis	0	0.0	~	0	0.0	~
Urinary System	3	6.9	4.0	1	2.2	2.2
Urinary Bladder	1	2.5	2.5	1	2.2	2.2
Kidney and Renal Pelvis	2	4.5	3.2	0	0.0	~
Ureter	0	0.0	~	0	0.0	~
Eye and Orbit	0	0.0	~	0	0.0	~
Brain and Other Nervous System	2	2.0	1.5	2	3.2	2.3
Brain	2	2.0	1.5	2	3.2	2.3
Endocrine System	0	0.0	~	2	2.9	2.1
Thyroid	0	0.0	~	2	2.9	2.1
Lymphomas	7	7.7	3.0	7	9.9	3.9
Hodgkins Disease	1	1.3	1.3	1	1.4	1.4
Non-Hodgkins Lymphomas	6	6.4	2.7	6	8.5	3.6
Multiple Myeloma	1	1.6	1.6	7	10.1	3.9
Leukemias	8	12.7	5.2	6	9.5	4.1
Acute Lymphocytic Leukemia	1	0.9	0.9	1	0.9	0.9
Chronic Lymphocytic Leukemia	2	4.1	3.0	0	0.0	~
Other Lymphocytic Leukemia	0	0.0	~	0	0.0	~
Acute Myeloid Leukemia	2	1.9	1.3	1	1.7	1.7
Chronic Myeloid Leukemia	2	2.3	1.8	0	0.0	~
Monocytic Leukemia	0	0.0	~	0	0.0	~
Other Leukemia	1	3.5	3.5	4	7.0	3.7
Miscellaneous Malignant Cancer	13	24.9	7.2	10	15.8	5.2

~ Statistic could not be calculated.

**Table 13 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 1970 Standard)
Rhode Island, 1996-2000, All Races by Sex and Anatomical Site**

SITES	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	6,188	207.8	2.7	6,171	142.7	2.0
Oral Cavity and Pharynx	79	2.7	0.3	64	1.4	0.2
Lip	0	0.0	~	0	0.0	~
Tongue	23	0.8	0.2	16	0.3	0.1
Salivary Gland	2	0.1	0.0	10	0.2	0.1
Floor of Mouth	1	0.0	0.0	2	0.0	0.0
Gum and Other Mouth	13	0.4	0.1	11	0.2	0.1
Nasopharynx	4	0.2	0.1	7	0.1	0.1
Oropharynx	10	0.3	0.1	3	0.1	0.0
Hypopharynx	4	0.1	0.1	2	0.1	0.1
Digestive System	1,615	54.5	1.4	1,522	31.3	0.9
Esophagus	194	6.8	0.5	76	1.6	0.2
Stomach	215	7.1	0.5	153	3.1	0.3
Small Intestine	7	0.2	0.1	15	0.3	0.1
Colon and Rectum	648	21.6	0.9	747	14.7	0.6
Colon excluding Rectum	537	17.7	0.8	648	12.8	0.6
Rectum and Rectosigmoid Junction	111	3.9	0.4	99	2.0	0.2
Anus, Anal Canal and Anorectum	5	0.2	0.1	4	0.1	0.1
Liver	137	4.8	0.4	57	1.2	0.2
Gallbladder	20	0.6	0.1	31	0.7	0.1
Pancreas	328	11.4	0.6	347	7.4	0.4
Respiratory System	2,120	72.5	1.6	1,534	38.4	1.1
Larynx	88	3.1	0.3	23	0.6	0.1
Lung and Bronchus	2,016	68.9	1.6	1,500	37.6	1.0
Bones and Joints	9	0.3	0.1	11	0.4	0.1
Soft Tissue including Heart	50	1.7	0.2	47	1.2	0.2
Skin excluding Basal and Squamous	115	3.9	0.4	107	2.4	0.3
Melanomas of the Skin	75	2.6	0.3	82	2.0	0.2
Breast	6	0.2	0.1	970	23.4	0.8
Female Genital System	0	0.0	~	519	13.1	0.6
Cervix	0	0.0	~	84	2.3	0.3
Corpus	0	0.0	~	66	1.7	0.2
Uterus, NOS	0	0.0	~	53	1.2	0.2
Ovary	0	0.0	~	287	7.2	0.5
Male Genital System	714	22.1	0.8	0	0.0	~
Prostate	702	21.7	0.8	0	0.0	~
Testis	9	0.3	0.1	0	0.0	~
Penis	1	0.0	0.0	0	0.0	~
Urinary System	325	10.6	0.6	233	5.0	0.4
Urinary Bladder	182	5.8	0.4	115	2.3	0.2
Kidney and Renal Pelvis	136	4.6	0.4	109	2.5	0.3
Ureter	4	0.1	0.1	4	0.1	0.0
Eye and Orbit	2	0.1	0.1	2	0.0	0.0
Brain and Other Nervous System	145	5.1	0.4	155	3.9	0.3
Brain	144	5.0	0.4	153	3.9	0.3
Endocrine System	19	0.7	0.2	22	0.5	0.1
Thyroid	16	0.5	0.1	14	0.3	0.1
Lymphomas	294	10.0	0.6	297	6.4	0.4
Hodgkins Disease	16	0.5	0.1	19	0.4	0.1
Non-Hodgkins Lymphomas	278	9.4	0.6	278	6.0	0.4
Multiple Myeloma	79	2.6	0.3	97	2.2	0.2
Leukemias	235	7.9	0.5	181	4.3	0.4
Acute Lymphocytic Leukemia	18	0.6	0.2	16	0.5	0.1
Chronic Lymphocytic Leukemia	54	1.7	0.2	28	0.5	0.1
Other Lymphocytic Leukemia	11	0.4	0.1	6	0.2	0.1
Acute Myeloid Leukemia	71	2.5	0.3	58	1.4	0.2
Chronic Myeloid Leukemia	16	0.5	0.1	18	0.5	0.1
Monocytic Leukemia	5	0.1	0.1	3	0.0	0.0
Other Leukemia	55	1.9	0.3	50	1.2	0.2
Miscellaneous Malignant Cancer	381	12.8	0.7	410	8.8	0.5
Unknown/missing/invalid COD	0	0.0	~	0	0.0	~

~ Statistic could not be calculated.

**Table 14 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 1970 Standard)
Rhode Island, 1996-2000, Whites by Sex and Anatomical Site**

SITES	Males (Whites)			Females (Whites)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	6,009	213.8	2.8	5,998	147.4	2.1
Oral Cavity and Pharynx	77	2.8	0.3	62	1.4	0.2
Lip	0	0.0	~	0	0.0	~
Tongue	22	0.8	0.2	16	0.3	0.1
Salivary Gland	2	0.1	0.0	10	0.2	0.1
Floor of Mouth	1	0.0	0.0	2	0.0	0.0
Gum and Other Mouth	13	0.5	0.1	10	0.2	0.1
Nasopharynx	4	0.2	0.1	7	0.1	0.1
Oropharynx	10	0.4	0.1	3	0.1	0.1
Hypopharynx	4	0.2	0.1	1	0.0	0.0
Digestive System	1,566	56.0	1.4	1,477	32.1	0.9
Esophagus	186	6.9	0.5	74	1.7	0.2
Stomach	207	7.2	0.5	149	3.2	0.3
Small Intestine	6	0.2	0.1	15	0.4	0.1
Colon and Rectum	636	22.4	0.9	726	15.1	0.6
Colon excluding Rectum	526	18.3	0.8	629	13.0	0.6
Rectum and Rectosigmoid Junction	110	4.1	0.4	97	2.0	0.2
Anus, Anal Canal and Anorectum	5	0.2	0.1	3	0.1	0.1
Liver	132	4.9	0.4	57	1.3	0.2
Gallbladder	19	0.6	0.1	31	0.8	0.2
Pancreas	317	11.7	0.7	335	7.6	0.5
Respiratory System	2,057	74.4	1.7	1,496	39.9	1.1
Larynx	87	3.3	0.4	22	0.6	0.1
Lung and Bronchus	1,954	70.6	1.6	1,463	39.0	1.1
Bones and Joints	9	0.4	0.1	10	0.4	0.1
Soft Tissue including Heart	49	1.8	0.3	45	1.2	0.2
Skin excluding Basal and Squamous	115	4.1	0.4	105	2.5	0.3
Melanomas of the Skin	75	2.7	0.3	80	2.1	0.3
Breast	6	0.2	0.1	944	24.3	0.9
Female Genital System	0	0.0	~	503	13.5	0.7
Cervix	0	0.0	~	81	2.5	0.3
Corpus	0	0.0	~	62	1.7	0.2
Uterus, NOS	0	0.0	~	52	1.3	0.2
Ovary	0	0.0	~	279	7.4	0.5
Male Genital System	688	22.3	0.9	0	0.0	~
Prostate	676	21.9	0.9	0	0.0	~
Testis	9	0.4	0.1	0	0.0	~
Penis	1	0.0	0.0	0	0.0	~
Urinary System	320	11.1	0.6	229	5.2	0.4
Urinary Bladder	181	6.1	0.5	112	2.4	0.3
Kidney and Renal Pelvis	132	4.7	0.4	108	2.7	0.3
Ureter	4	0.1	0.1	4	0.1	0.0
Eye and Orbit	2	0.1	0.1	2	0.0	0.0
Brain and Other Nervous System	143	5.4	0.5	153	4.2	0.4
Brain	142	5.4	0.5	151	4.2	0.4
Endocrine System	19	0.7	0.2	20	0.5	0.1
Thyroid	16	0.6	0.1	12	0.3	0.1
Lymphomas	287	10.4	0.6	290	6.6	0.4
Hodgkins Disease	15	0.6	0.1	18	0.4	0.1
Non-Hodgkins Lymphomas	272	9.8	0.6	272	6.2	0.4
Multiple Myeloma	77	2.6	0.3	88	2.1	0.2
Leukemias	227	8.2	0.6	175	4.6	0.4
Acute Lymphocytic Leukemia	17	0.7	0.2	15	0.6	0.2
Chronic Lymphocytic Leukemia	52	1.7	0.2	28	0.6	0.1
Other Lymphocytic Leukemia	11	0.4	0.1	6	0.2	0.1
Acute Myeloid Leukemia	69	2.7	0.3	57	1.5	0.2
Chronic Myeloid Leukemia	14	0.5	0.1	18	0.5	0.1
Monocytic Leukemia	5	0.2	0.1	3	0.0	0.0
Other Leukemia	54	1.9	0.3	46	1.2	0.2
Miscellaneous Malignant Cancer	367	13.1	0.7	399	9.0	0.5
Unknown/missing/invalid COD	0	0.0	~	0	0.0	~

~ Statistic could not be calculated.

**Table 15 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 1970 Standard)
Rhode Island, 1996-2000, Blacks by Sex and Anatomical Site**

SITES	Males (Blacks)			Females (Blacks)		
	Count	Rate	SE	Count	Rate	SE
All Malignant Cancers	165	268.8	21.9	160	186.0	14.9
Oral Cavity and Pharynx	2	3.2	2.3	1	1.3	1.3
Lip	0	0.0	~	0	0.0	~
Tongue	1	1.6	1.6	0	0.0	~
Salivary Gland	0	0.0	~	0	0.0	~
Floor of Mouth	0	0.0	~	0	0.0	~
Gum and Other Mouth	0	0.0	~	0	0.0	~
Nasopharynx	0	0.0	~	0	0.0	~
Oropharynx	0	0.0	~	0	0.0	~
Hypopharynx	0	0.0	~	1	1.3	1.3
Digestive System	46	78.7	12.1	43	49.8	7.6
Esophagus	8	12.8	4.8	2	2.4	1.7
Stomach	8	12.8	4.7	4	4.6	2.3
Small Intestine	1	2.2	2.2	0	0.0	~
Colon and Rectum	10	18.0	5.9	20	23.5	5.3
Colon excluding Rectum	9	16.3	5.7	19	22.2	5.1
Rectum and Rectosigmoid Junction	1	1.7	1.7	1	1.3	1.3
Anus, Anal Canal and Anorectum	0	0.0	~	1	1.2	1.2
Liver	5	8.3	3.8	0	0.0	~
Gallbladder	1	2.7	2.7	0	0.0	~
Pancreas	10	15.7	5.0	12	13.7	4.0
Respiratory System	57	90.7	12.6	35	42.5	7.2
Larynx	1	1.1	1.1	1	1.2	1.2
Lung and Bronchus	56	89.6	12.6	34	41.3	7.1
Bones and Joints	0	0.0	~	1	0.6	0.6
Soft Tissue including Heart	1	1.6	1.6	2	1.9	1.4
Skin excluding Basal and Squamous	0	0.0	~	2	2.5	1.8
Melanomas of the Skin	0	0.0	~	2	2.5	1.8
Breast	0	0.0	~	25	29.1	5.9
Female Genital System	0	0.0	~	16	18.9	4.8
Cervix	0	0.0	~	3	3.3	2.0
Corpus	0	0.0	~	4	4.9	2.4
Uterus, NOS	0	0.0	~	1	1.4	1.4
Ovary	0	0.0	~	8	9.3	3.3
Male Genital System	25	48.0	9.8	0	0.0	~
Prostate	25	48.0	9.8	0	0.0	~
Testis	0	0.0	~	0	0.0	~
Penis	0	0.0	~	0	0.0	~
Urinary System	3	5.1	3.0	1	1.0	1.0
Urinary Bladder	1	1.7	1.7	1	1.0	1.0
Kidney and Renal Pelvis	2	3.4	2.4	0	0.0	~
Ureter	0	0.0	~	0	0.0	~
Eye and Orbit	0	0.0	~	0	0.0	~
Brain and Other Nervous System	2	1.7	1.3	2	2.6	1.8
Brain	2	1.7	1.3	2	2.6	1.8
Endocrine System	0	0.0	~	2	2.5	1.8
Thyroid	0	0.0	~	2	2.5	1.8
Lymphomas	7	6.9	2.8	7	8.0	3.1
Hodgkins Disease	1	1.1	1.1	1	1.4	1.4
Non-Hodgkins Lymphomas	6	5.7	2.5	6	6.6	2.7
Multiple Myeloma	1	1.6	1.6	7	8.0	3.0
Leukemias	8	9.7	3.8	6	6.0	2.5
Acute Lymphocytic Leukemia	1	0.6	0.6	1	0.6	0.6
Chronic Lymphocytic Leukemia	2	3.4	2.4	0	0.0	~
Other Lymphocytic Leukemia	0	0.0	~	0	0.0	~
Acute Myeloid Leukemia	2	1.3	0.9	1	1.2	1.2
Chronic Myeloid Leukemia	2	2.2	1.7	0	0.0	~
Monocytic Leukemia	0	0.0	~	0	0.0	~
Other Leukemia	1	2.2	2.2	4	4.2	2.2
Miscellaneous Malignant Cancer	13	21.5	6.0	10	11.4	3.6
Unknown/missing/invalid COD	0	0.0	~	0	0.0	~

~ Statistic could not be calculated.

**Table 16 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 2000 Standard)
Rhode Island Counties, 1996-2000, All Races by Sex and Selected Anatomical Site**

Counties / Sites	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Counties						
All Malignant Cancers	6,188	270.7	3.5	6,171	179.0	2.3
Colon and Rectum	648	28.9	1.2	747	20.1	0.8
Lung and Bronchus	2,016	85.9	1.9	1,500	45.0	1.2
Melanomas of the Skin	75	3.3	0.4	82	2.5	0.3
Breast	6	0.3	0.1	970	29.2	1.0
Cervix	0	0.0	~	84	2.8	0.3
Prostate	702	33.1	1.3	0	0.0	~
Bristol County						
All Malignant Cancers	347	268.9	14.7	283	155.4	9.4
Colon and Rectum	31	24.1	4.4	38	19.2	3.2
Lung and Bronchus	116	87.1	8.2	63	35.8	4.6
Melanomas of the Skin	3	2.4	1.4	6	3.3	1.4
Breast	0	0.0	~	45	26.2	4.0
Cervix	0	0.0	~	5	3.6	1.6
Prostate	41	34.9	5.6	0	0.0	~
Kent County						
All Malignant Cancers	1,083	285.8	8.9	1,126	200.9	6.1
Colon and Rectum	128	34.3	3.1	134	23.0	2.0
Lung and Bronchus	363	91.6	4.9	287	51.7	3.1
Melanomas of the Skin	21	5.5	1.2	15	2.9	0.8
Breast	1	0.2	0.2	184	33.6	2.5
Cervix	0	0.0	~	16	3.1	0.8
Prostate	121	35.8	3.4	0	0.0	~
Newport County						
All Malignant Cancers	479	252.1	11.7	490	177.9	8.1
Colon and Rectum	45	23.3	3.5	57	19.5	2.6
Lung and Bronchus	140	72.1	6.2	118	44.1	4.1
Melanomas of the Skin	4	1.9	1.0	7	2.4	0.9
Breast	0	0.0	~	78	29.0	3.3
Cervix	0	0.0	~	9	3.7	1.2
Prostate	64	37.3	4.8	0	0.0	~
Providence County						
All Malignant Cancers	3,634	271.9	4.5	3,681	176.8	3.0
Colon and Rectum	386	29.4	1.5	448	19.4	0.9
Lung and Bronchus	1,181	86.8	2.5	867	43.6	1.5
Melanomas of the Skin	42	3.2	0.5	43	2.2	0.4
Breast	5	0.4	0.2	583	29.4	1.3
Cervix	0	0.0	~	46	2.7	0.4
Prostate	403	31.8	1.6	0	0.0	~
Washington County						
All Malignant Cancers	645	258.1	10.4	591	170.1	7.0
Colon and Rectum	58	24.3	3.3	70	19.6	2.3
Lung and Bronchus	216	81.5	5.6	165	48.5	3.8
Melanomas of the Skin	5	2.5	1.2	11	3.3	1.0
Breast	0	0.0	~	80	23.2	2.6
Cervix	0	0.0	~	8	2.4	0.9
Prostate	73	32.7	3.9	0	0.0	~

~ Statistic could not be calculated.

**Table 17 Total Cancer Deaths and Average Annual Age-adjusted Cancer Mortality Rates (U.S. Year 1970 Standard)
Rhode Island Counties, 1996-2000, All Races by Sex and Selected Anatomical Site**

Counties / Sites	Males (All Races)			Females (All Races)		
	Count	Rate	SE	Count	Rate	SE
All Counties						
All Malignant Cancers	6,188	207.8	2.7	6,171	142.7	2.0
Colon and Rectum	648	21.6	0.9	747	14.7	0.6
Lung and Bronchus	2,016	68.9	1.6	1,500	37.6	1.0
Melanomas of the Skin	75	2.6	0.3	82	2.0	0.2
Breast	6	0.2	0.1	970	23.4	0.8
Cervix	0	0.0	~	84	2.3	0.3
Prostate	702	21.7	0.8	0	0.0	~
Bristol County						
All Malignant Cancers	347	203.4	11.1	283	122.9	8.0
Colon and Rectum	31	16.9	3.1	38	13.8	2.5
Lung and Bronchus	116	69.0	6.5	63	30.1	4.1
Melanomas of the Skin	3	2.2	1.3	6	2.8	1.3
Breast	0	0.0	~	45	21.6	3.4
Cervix	0	0.0	~	5	2.9	1.4
Prostate	41	21.5	3.4	0	0.0	~
Kent County						
All Malignant Cancers	1,083	220.5	6.8	1,126	161.8	5.2
Colon and Rectum	128	26.3	2.3	134	17.6	1.6
Lung and Bronchus	363	74.3	3.9	287	43.2	2.7
Melanomas of the Skin	21	4.4	1.0	15	2.2	0.6
Breast	1	0.2	0.2	184	26.9	2.1
Cervix	0	0.0	~	16	2.6	0.7
Prostate	121	23.7	2.2	0	0.0	~
Newport County						
All Malignant Cancers	479	191.8	8.8	490	141.9	6.9
Colon and Rectum	45	18.0	2.7	57	14.3	2.1
Lung and Bronchus	140	57.1	4.9	118	37.1	3.6
Melanomas of the Skin	4	1.6	0.8	7	1.6	0.7
Breast	0	0.0	~	78	23.9	2.9
Cervix	0	0.0	~	9	2.9	1.0
Prostate	64	24.6	3.1	0	0.0	~
Providence County						
All Malignant Cancers	3,634	209.3	3.5	3,681	140.4	2.6
Colon and Rectum	386	21.9	1.1	448	13.9	0.7
Lung and Bronchus	1,181	69.2	2.1	867	36.3	1.3
Melanomas of the Skin	42	2.5	0.4	43	1.8	0.3
Breast	5	0.3	0.1	583	23.5	1.1
Cervix	0	0.0	~	46	2.3	0.4
Prostate	403	20.9	1.1	0	0.0	~
Washington County						
All Malignant Cancers	645	196.0	7.8	591	137.1	5.9
Colon and Rectum	58	17.4	2.3	70	14.7	1.9
Lung and Bronchus	216	67.3	4.6	165	41.2	3.3
Melanomas of the Skin	5	1.4	0.6	11	2.9	0.9
Breast	0	0.0	~	80	18.6	2.2
Cervix	0	0.0	~	8	2.0	0.7
Prostate	73	21.3	2.5	0	0.0	~

~ Statistic could not be calculated.